

## Technical Analysis and Findings

### Utah Coal Regulatory Program

**PID:** C0150032  
**TaskID:** 4639  
**Mine Name:** CRANDALL CANYON MINE  
**Title:** REVISED POLYMER TESTING

### Operation Plan

#### Hydrologic General

##### Analysis:

The amendment meets the State of Utah R645 General Hydrologic requirements. On July 11th, 2014, the Division of Oil, Gas and Mining (the Division) received an amendment from Genwal Resources (the Permittee) to revise the Crandall Canyon mining and reclamation plan (MRP).

The amendment proposes to revise two sections of the Crandall Canyon MRP relative to the mine-water discharge treatment system. As total iron (T-Fe) levels and mine-water discharge rates have declined, the Permittee has been able to successfully eliminate the use of flocculent in the treatment process and maintain compliance with the Utah Pollution Discharge Elimination System (UPDES) standard of 1.24 parts-per-million (ppm). As the use of flocculent is no longer being employed in the mine-water treatment process, it is not necessary for the Permittee to perform residual flocculent tests as was previously required.

The Permittee has provided additional language in two sections of the MRP: Table 7-4(A), Mine Water Discharge Analysis List located in the main hydrology section of the MRP, chapter 7 and in the mine-water treatment section located in Appendix 7-65.

The language simply clarifies that if flocculent is not being used, a carry over test of residual chemical (i.e. flocculent) is not required.

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